

What is claimed is:

1. A projection lens comprising: six lenses including a single lens having negative refracting power serving as a first lens, a single lens having positive refracting power serving as a second lens, a single lens having negative refracting power serving as a third lens, a compound lens having positive refracting power, consisting of a first component lens having negative refracting power and a second component lens having positive refracting power and cemented to the first component lens, and serving as a fourth lens, and a single lens having positive refracting power serving as a fifth lens, arranged in that order from a side of a screen toward a display device;

wherein a part of the projection lens on the side of the display device is substantially telecentric, and a surface, on the side of the display device, of the first lens, and a surface, on the side of the display device, of the second component lens of the fourth lens are aspherical.

2. The projection lens according to claim 1, wherein $0.3 < L_{23}/L_{2-4} < 0.5$, where L_{2-4} is the distance between an end, on the side of the screen, of the second lens and an end, on the side of the display device, of the fourth lens, and L_{23} is the distance between an end, on the side of the display device, of the second lens and an end, on the side of the screen, of the third lens.

3. The projection lens according to claim 1, wherein the first, the second and the third lens meet a condition: $-1.5 < f_{1-2}/f_3 < -0.8$, where f_{1-2} is the synthetic focal length of the first and the second lens, and f_3 is the focal length of the third lens.

4. The projection lens according to claim 1, wherein the first, the second and the third lens have refractive powers such that light rays traveling from the side of the screen and falling on the first lens

substantially parallel to an optical axis emerge from the third lens substantially parallel to the optical axis.

5. The projection lens according to claim 1, wherein a surface, on the side of the screen, of the first component lens of the fourth lens is substantially flat.

6. An optical projector comprising:
an image forming means for forming an image; and
the projection lens according to any one of claims 1 to 5 for projecting the image formed by the image forming means.